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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q88457

Kenji MIYAZAKI, et al.

Appln. No.: 10/538,305

Group Art Unit: 1645

Confirmation No.: 3672

Examiner: Not Yet Assigned

Filed: June 9, 2005

For: METHOD OF ANALYZING C-TERMINAL AMINO ACID SEQUENCE OF PEPTIDE

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

ATTN: Office of Initial Patent Examination

Filing Receipt Correction

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

We enclose a copy of the Official Filing Receipt for the above-identified application and request the following corrections:

Please correct the **Title** section of the Official Filing Receipt as shown below.

**Title**

Method for analyzing c-terminal ~~amino~~ amino acid sequence of peptide

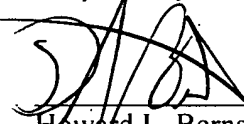
Please correct the **Foreign Applications** section of the Official Filing Receipt as shown below.

**Foreign Applications**

JAPAN ~~2002-357-972~~ 2002-357972 12/10/2002

Verification for the requested corrections is indicated on the first page of the International Publication No. 2004/053498, a copy of which is enclosed.

Respectfully submitted,

  
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WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: May 1, 2006



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/538,305	06/09/2005	1645	1400 ✓	Q88457	8 ✓	19 ✓	2 ✓

CONFIRMATION NO. 3672

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## FILING RECEIPT



\*OC000000017496206\*

Date Mailed: 11/23/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

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## Assignment For Published Patent Application

NEC Corporation, Tokyo, JAPAN ✓  
Tokyo Rikakikai Co., Ltd., Tokyo, JAPAN ✓

**Power of Attorney:** The patent practitioners associated with Customer Number 23373. ✓

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/15522 12/04/2003 ✓

## Foreign Applications

JAPAN 2002-357 972 12/10/2002 ✓  
2002-357972

**Projected Publication Date:** 03/02/2006

**Non-Publication Request:** No

**Early Publication Request:** No

Title

Method <sup>of</sup> analyzing c-terminal <sup>amino</sup> ~~amono~~ acid sequence of peptide

Preliminary Class

530

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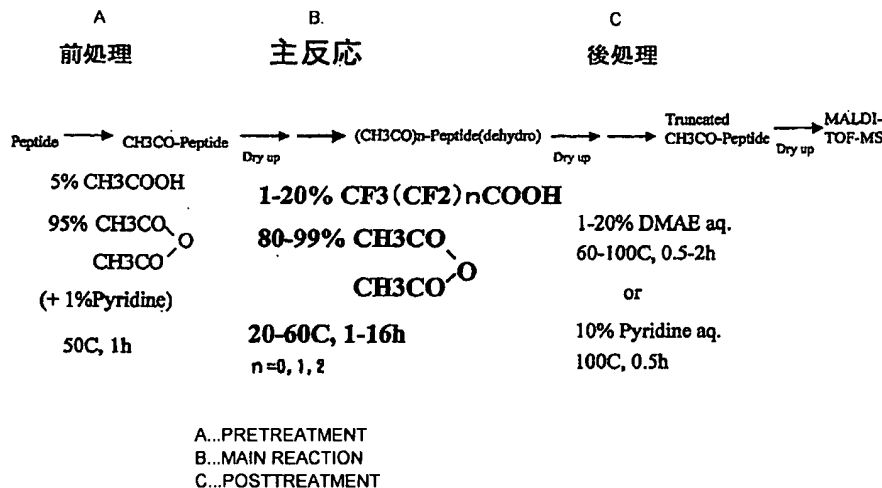
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[続葉有]

(54) Title: METHOD OF ANALYZING C-TERMINAL AMINO ACID SEQUENCE OF PEPTIDE

(54) 発明の名称: ペプチドのC末端アミノ酸配列解析方法



(57) Abstract: It is intended to provide a method of analyzing the C-terminal amino acid sequence of a peptide with the use of a means of successively degrading C-terminal amino acids whereby the C-terminal amino acids of a peptide having a long amino acid chain can be successively degraded while preventing undesirable side-reactions such as cleavage of a peptide chain in the middle of the peptide and the treatment can be carried out under widely applicable conditions. Namely, a method of specifying the C-terminal amino acid sequence by preliminarily N-acylating a dry sample of a peptide having a long amino acid chain, successively degrading the C-terminal amino acids under mild conditions by using a reaction reagent comprising an alkanolic acid anhydride combined with a small amount of a perfluoroalkanoic acid, hydrolyzing, then digesting the obtained product with trypsin to thereby selectively fractionate it at an arginine site, and then measuring a molecular weight loss of the C-terminal fragment caused by a series of the reaction products by the negative mode analysis with the use of an MALDI-TOF-MS apparatus.

(57) 要約: 本発明は、アミノ酸長の長いペプチドのC末端アミノ酸を逐次的に分解する際、ペプチド途中におけるペプチド結合の切断などの好ましくない副次反応を抑制でき、その処理を汎用性の富む条件で実施することが可能な、逐次的C末端アミノ酸の分解反応手段を利用した

[続葉有]